

GENERAL PLAN NOTES:

- 1. THE CONTRACTOR SHALL BE PREPARED TO REPAIR/REPLACE ANY WORK DEEMED TO BE SUBSTANDARD OR WORK WITHOUT INSPECTION SIGN-OFF BY THE GOVERNING DIVISION OF ENGINEERING AND CONSTRUCTION.
2. STREET OPENING PERMIT FOR RIGHT OF WAY CONSTRUCTION
DEFINITION: ANY CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY FOR THE PURPOSES OF INSTALLING NEW OR REPAIRING/UPGRADING EXISTING PRIVATE AND PUBLIC FACILITIES SHALL BE GOVERNED BY THE REQUIREMENTS OF THIS PERMIT.
3. NO OBSTRUCTIONS SHALL BE PLACED IN FRONT OR INTERFERE WITH ANY FIRE HYDRANT OR FIRE ALARM BOX.
4. INTERSECTION CROSSOVERS MUST BE SQUARED OFF AND MAY INCLUDE GRINDING AND RESURFACING OF THE ENTIRE INTERSECTION
5. ADA COMPLIANT CURB RAMPS SHALL BE CONSTRUCTED AT INTERSECTIONS ADJACENT TO ROADWAY AND SIDEWALK PAVEMENT RESTORATION WORK AND AS PER THE DIRECTION OF THE COMMISSIONER OF ENGINEERING AND CONSTRUCTION.
6. CONTRACTOR MUST COORDINATE FOR CITY INSPECTION OF CONSTRUCTION, INCLUDING RESTORATION WORK AND BACKFILLING, AT LEAST 5 BUSINESS DAYS IN ADVANCE.
7. PRIVATE/PUBLIC UTILITIES AND TRAFFIC SIGNALS. CARE SHALL BE TAKEN TO NOT DAMAGE UNDERGROUND UTILITIES, INCLUDING BURIED TRAFFIC SIGNAL EQUIPMENT, AND HAND DIGGING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT DAMAGE TO UNDERGROUND UTILITIES.
8. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING, DIGSAFE, 611, MISS DIG OR CUPS, AND OTHER UTILITY COMPANIES, AT LEAST 48 HOURS BEFORE DIGGING.
9. DIRECTION DRILLING/BORING RESTRICTIONS: DIRECTIONAL DRILLING AND/OR BORING IS NOT PERMITTED WITHOUT SPECIAL APPROVAL FROM THE LOCAL AUTHORITIES.
10. AS-BUILT DRAWING REQUIREMENTS: AS-BUILT DRAWINGS WILL BE SUBMITTED TO CROWN CASTLE AND THE ENGINEER.
11. SIDEWALK AND OBSTRUCTION PERMITS: ALL REPAIRS ARE TO BE PERFORMED PER THE LOCAL CITY STANDARDS AND DETAIL DRAWINGS WHICH WILL BE PROVIDED WITH THE SIDEWALK PERMIT OR UPON REQUEST.
12. CITY STANDARDS SIDEWALK, DRIVEWAY AND APRON REPAIRS. SIDEWALK DRIVEWAY AND APRON REPAIRS ARE TO BE DONE IN CONCRETE WITH AN AIR ENTRAINED CONCRETE MIX THAT HAS A MINIMUM OF 650 LBS. CEMENT PER CUBIC YARD, FULL SLAB REPAIRS ARE REQUIRED, JOINT-TO-JOINT WITH A BROOM FINISH AND TO LOCAL CODE SPECIFICATIONS.
13. CURB REPAIRS: MAY BE CONCRETE OR IN KIND MATERIAL. THIS VARIATION IN WHICH CITY DISTRICT THE REPAIRS ARE TO BE MADE.
14. THE PLAN SHOWS SOME SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR OTHER FEATURES FROM FIELD MEASUREMENTS AND RECORD MAPPING, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATION INDICATED.
15. CONTRACTOR SHALL CONTACT A SUBSURFACE UTILITY LOCATOR FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
16. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE.
17. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS.
18. WORK SHALL COMPLY WITH CURRENT ISSUES OF ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES, AND REGULATIONS, THE LATEST EDITION THEREOF.
19. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES.
20. ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
21. THE ENGINEER HAS NOT CONDUCTED, NOR DOES IT INTEND TO CONDUCT ANY INVESTIGATION TO DETERMINE THE PRESENCE OF ANY HAZARDOUS MATERIAL INCLUDING BUT NOT LIMITED TO ASBESTOS,

- LEAD PAINT, AND PCB'S WITHIN THE CONFINES OF THIS PROJECT. THE ENGINEER WILL NOT ACCEPT ANY RESPONSIBILITY FOR THE ABATEMENT OR RESULTING CLAIMS FOR DAMAGES OR LOSSES AS A RESULT OF THE PRESENCE OF HAZARDOUS MATERIALS.
22. ALL MATERIAL FURNISHED UNDER THIS CONTRACT SHALL BE NEW UNLESS OTHERWISE NOTED.
23. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR ARE TO BE RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS, DIMENSIONS, AND THE LOCATION OF BURIED UTILITIES AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF WORK.
24. FOLLOW MANUFACTURERS' PRINTED SPECIFICATION AND INSTRUCTIONS EXCEPT WHERE SPECIFIED OR INDICATED ON CONTRACT DOCUMENTS.
25. THE CONTRACTOR SHALL VERIFY AND COORDINATE SIZE AND LOCATION OF ALL OPENINGS FOR STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND/OR ARCHITECTURAL WORK.
26. THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTS AMONG THE LOCATION OF ANY MECHANICAL, ELECTRICAL, PLUMBING, OR STRUCTURAL ELEMENTS AND THAT ALL REQUIRED CLEARANCES AND CONSTRUCTION TOLERANCES FOR INSTALLATION AND MAINTENANCE ARE PROVIDED.
27. DO NOT SCALE DRAWINGS. DIMENSIONS ARE EITHER TO THE FACE OF FINISHED ELEMENTS OR TO THE CENTERLINE OF ELEMENTS.
28. THE CONTRACTOR IS RESPONSIBLE FOR DAILY CLEANUP OF THE SITE AND REMOVAL AND DISPOSAL OF ALL CONSTRUCTION DEBRIS.
29. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION.
30. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, (OSHA), STATE AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
31. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES TO THE EXISTING FACILITY AND INSTALLATION RESULTING FROM CONSTRUCTION AND GENERAL NEGLIGENCE.
32. WHERE ONE DETAIL IS SHOWN FOR ONE CONDITION, UNLESS NOTED OTHERWISE, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS.
33. THE CUSTOMER'S REPRESENTATIVE IS RESPONSIBLE FOR APPLYING FOR COMMERCIAL POWER CONNECTION.
34. THE CUSTOMER'S REPRESENTATIVE SHALL OBTAIN WRITTEN CONFIRMATION OF THE COMPLETION DATE OF THE POWER CONNECTION.
35. DRAWINGS FORMING THIS SET ARE COMPLIMENTARY AND MUST BE READ AS ONE TOTAL DOCUMENT.
36. THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL BE INTERPRETED TO BE A MINIMUM ACCEPTABLE STANDARD FOR CONSTRUCTION.
37. THESE CONTRACT DOCUMENTS AND SPECIFICATIONS DO NOT CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE CROWN CASTLE REPRESENTATIVE AND THE CONTRACTOR.
38. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT DESCRIBED HEREON.
39. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE CROWN CASTLE REPRESENTATIVE TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM DESCRIBED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
40. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN.
41. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT AND MAINTAIN EXISTING CONDITIONS, EASEMENTS, PAVEMENTS, CURBING, ETC.
42. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ALL AREAS IN ACCORDANCE WITH THE STATE'S DEPARTMENT OF TRANSPORTATION STANDARDS FOR TRAFFIC CONTROL.

- 43. THE CONTRACTOR SHALL NOTIFY THE CROWN CASTLE REPRESENTATIVE WHERE ANY PUBLIC UTILITIES OR ANY OF THE CONTRACT DOCUMENTS, THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL IT IS RESOLVED BY THE CROWN CASTLE REPRESENTATIVE.
44. CONTRACTOR TO PROVIDE TEMPORARY TOILET FACILITIES FOR DURATION OF PROJECT.
45. CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH APPROPRIATE UTILITY OWNERS.
46. THESE PLANS ARE NOT FOR RECORDATION OR CONVEYANCE.
GENERAL UTILITY NOTES:
1. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES IMMEDIATELY AFTER BID IS AWARDED AND ENSURE THE UTILITY COMPANIES HAVE THE ESSENTIALS REQUIRED FOR COMPLETE SERVICE INSTALLATION.
2. CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING UTILITIES WHICH ARE INTENDED TO BE UTILIZED AS A CONNECTION POINT FOR ALL PROPOSED UTILITIES.
3. WHERE PLANS PROVIDE FOR PROPOSED WORK TO BE CONNECTED TO, OR CROSS OVER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING THE PROPOSED WORK.
4. IF TRAFFIC PLANS NOT INCLUDED IN THE CONSTRUCTION DRAWING SET, THE CONTRACTOR SHALL PREPARE AND SUBMIT A FORMAL TRAFFIC CONTROL / MOT PLAN TO THE LOCAL GOVERNING AUTHORITIES IF REQUESTED.
5. ALL ITEMS REFERENCED THROUGHOUT (THIS RAW) ARE ONLY A GUIDELINE AND AS SUCH DOES NOT COVER EVERY POSSIBLE CONTINGENCY THAT MAY OCCUR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN LABOR, EQUIPMENT, SAFETY, TRAFFIC CONTROL MEASUREMENTS AND THE FURNISHING AND INSTALLING OF ALL NECESSARY MATERIALS REQUIRED.
7. WHERE AN MGB IS INSTALLED, ALL CONNECTIONS TO THE MGB SHALL UTILIZE 2-HOLE CONNECTOR LUG(S).
8. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN LABOR, EQUIPMENT, SAFETY, TRAFFIC CONTROL MEASUREMENTS AND THE FURNISHING AND INSTALLING OF ALL NECESSARY MATERIALS REQUIRED.
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16. INFORMATION ON THESE SHEETS IS BEING PREPARED FROM THE BEST AVAILABLE INFORMATION AND SOURCES.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN LABOR, EQUIPMENT, SAFETY, TRAFFIC CONTROL MEASUREMENTS AND THE FURNISHING AND INSTALLING OF ALL NECESSARY MATERIALS REQUIRED.
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21. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN LABOR, EQUIPMENT, SAFETY, TRAFFIC CONTROL MEASUREMENTS AND THE FURNISHING AND INSTALLING OF ALL NECESSARY MATERIALS REQUIRED.

- GENERAL NOTES:
ELECTRIC 120V POWER SUPPLY TO NODE:
1. CONTRACTOR SHALL CO-ORDINATE WITH POWER COMPANY AND VERIFY EXISTING TRANSFORMER SHORT CIRCUIT RATING, CAI CUI ATE FAULT CURRENT AT PANEL, AND VERIFY A1 EXISTING BREAKERS AND NEW BREAKERS HAVE A1C RATING THAT EXCEEDS FAULT CURRENT AT PANEL SOURCE.
2. NOTE: NEW ELECTRICAL CONDUIT WITH POWER SUPPLY CABLES, WHERE POSSIBLE, SHALL BE PER NATIONAL ELECTRIC SAFETY CODE, LATEST EDITION.
3. CROWN CASTLE CONTRACTOR TO PLACE WRAP AROUND IDENTIFICATION TAG ON NEW CONDUCTOR CABLE.
4. CROWN CASTLE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN LABOR, EQUIPMENT, MEASUREMENTS AND THE FURNISHING AND INSTALLING OF ALL NECESSARY MATERIALS TO COMPLETE THE POWER SUPPLY CIRCUIT.
5. CROWN CASTLE CONTRACTOR TO PLACE MULETAPE WITH SEQUENTIAL FOOTAGE MARKINGS MINIMUM 1800 LBS. STRENGTH.
6. THE CROWN CASTLE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF THE NEW CABLE AND TO THE MOTORING AND PEDESTRIAN TRAFFIC WHERE IT IS NECESSARY TO FIGURE S THE CABLE DURING THE PLACEMENT PROCESS.
7. WHERE APPLICABLE, UPON COMPLETION OF PLACEMENT OF CABLE AT EACH MANHOLE THE NEW CROWN CASTLE CABLE ENTERING AND EXITING THE MANHOLE IS TO BE CAREFULLY POSITIONED TO THE APPROPRIATE WALL OF THE MANHOLE, POSITIONED ON THE MANHOLE WALL WITH MANHOLE RACK HOOK(S) AND SECURED TO THE HOOK(S) WITH A PLASTIC TIE(S).
8. CROWN CASTLE CONTRACTOR IS RESPONSIBLE FOR ACCURATELY RECORDING THE CABLE FOOTAGE MARKING OF THE NEW CABLE AT BOTH THE TERMINATION POINT AND ORIGIN AND PLACING THAT INFORMATION ON THE FIELD PRINTS TO BE GIVEN TO CROWN CASTLE.
9. WHERE APPLICABLE, CROWN CASTLE CONTRACTOR IS RESPONSIBLE FOR ACCURATELY RECORDING THE STORAGE LOOP FOOTAGE PLACED AT EACH SPECIFIED LOCATION AND PLACING THAT INFORMATION ON THE HELD PRINTS TO BE GIVEN TO CROWN CASTLE.
10. CROWN CASTLE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN LABOR, MEASUREMENTS AND THE FURNISHING AND INSTALLING OF ALL NECESSARY MATERIALS TO COMPLETE THE COMMUNICATION CONDUIT PATH BETWEEN THE PROPOSED NODE LOCATION AND EXISTING SERVICE POINT.
11. CONTRACTOR TO COORDINATE WITH CROWN CASTLE TO VERIFY THE EXACT LOCATION OF EXISTING SERVICE POINT.
12. THE INSTALLATION OF 120V ELECTRICAL SUPPLY CONDUIT & CABLES, INSTALLATION OF COMMUNICATION CONDUIT & CABLE, ALL 1551 ING, INCLUDING BUT NOT LIMITED TO ALL MATERIAL CABLE TERMINATIONS, SPLICES, GROUND TO CABLE CONNECTIONS, TRENCHING AND RESTORATION ARE TO BE PLACED AND/OR EXECUTED THE GREATER OF THE FOLLOWING GOVERNING AUTHORITY, THE NATIONAL ELECTRIC SAFETY CODE (NEC) IN ADDITION, ALL OSHA SAFETY REQUIREMENTS, ALL GOVERNING RIGHTS-OF-WAY POLICIES AND PROCEDURES AND THE POLICY AND PRACTICES SET FORTH BY CROWN CASTLE.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN LABOR, EQUIPMENT, SAFETY, TRAFFIC CONTROL MEASUREMENTS AND THE FURNISHING AND INSTALLING OF ALL NECESSARY MATERIALS REQUIRED.
14. CONTRACTOR IS RESPONSIBLE FOR THE CONTACTING OF AND COORDINATION WITH: LOCAL UTILITY PROTECTION SERVICES ELECTRIC POWER PROVIDER GOVERNING DIVISION OF ENGINEERING & CONSTRUCTION GOVERNING DIVISION OF TRAFFIC & ENGINEERING GOVERNING DIVISION OF POLICE & TRAFFIC AND ALL PRIVATE UTILITIES 48 HOURS BEFORE YOU DIG.
15. ALL ITEMS REFERENCED THROUGHOUT (THIS RAW) ARE ONLY A GUIDELINE AND AS SUCH DOES NOT COVER EVERY POSSIBLE CONTINGENCY THAT MAY OCCUR.
16. INFORMATION ON THESE SHEETS IS BEING PREPARED FROM THE BEST AVAILABLE INFORMATION AND SOURCES.
GROUNDING NOTES:
1. ALL CROWN PLANTS SHALL BE GROUNDED IN COMPLIANCE WITH NEC, NESC AND/OR 6095 (CALIFORNIA).
2. ALWAYS COMPLY WITH THE REQUIREMENTS OF THE UTILITY POLE OWNER.
3. CROWN CASTLE REQUIRES (1) MAIN VERTICAL GROUND RISER (VGR) CONDUCTOR FROM THE ANTENNA MOUNTING BRACKET AT THE TOPSIDE OF THE POLE TO THE GROUNDING ELECTRODE SYSTEM AT THE BASE OF THE POLE.
4. GROUND ROD(S) SHALL BE A MINIMUM 5/8" DIAMETER, 8' IN LENGTH, AND COPPER-CLAD STEEL.
5. WHERE A MAIN GROUND BAR (MGB) IS INSTALLED IN ORDER TO TERMINATE AVAILABLE GROUNDING CONDUCTORS, THE MGB SHALL BE PRE-CONFIGURED TO ACCEPT 2-HOLE GROUND LUGS.
6. THE VERTICAL GROUND RISER (VGR) SHALL BE ATTACHED DIRECTLY TO THE ANTENNA BRACKET VIA A 316-STAINLESS STEEL BOLT.
7. ALL POLE MOUNTED DEVICES, INCLUDING BUT NOT ANTENNA MOUNTS, ANTENNAS WITH FACTORY GROUND TERMINAL MOUNTING BRACKETS, AND RADIO EQUIPMENT CABINETS SHALL BE BONDED WITH A #6 AWG STRAP/JUMPER TO THE MAIN VGR CONDUCTOR WITH IRREVERSIBLE COMPRESSION CLAMPS.
8. MGB SHALL BE MOUNTED ADJACENT TO OR WITHIN THE RADIO EQUIPMENT CABINET ON A NON-CONDUCTIVE POLE.
9. COAXIAL CABLES SHALL BE GROUNDED USING A GROUND KIT INSTALLED BEFORE THE DRIP LOOP AT THE ENTRY TO THE RADIO CABINET.
10. MGB SHALL BE MOUNTED ADJACENT TO OR WITHIN THE RADIO EQUIPMENT CABINET OR ON THE EXTERIOR SURFACE OF THE POLE.
11. ALL POLE MOUNTED DEVICES, INCLUDING BUT NOT ANTENNA MOUNTS, ANTENNAS WITH FACTORY GROUND TERMINAL MOUNTING BRACKETS, AND RADIO EQUIPMENT CABINETS SHALL BE BONDED WITH A #6 AWG STRAP/JUMPER TO THE MAIN VGR CONDUCTOR WITH IRREVERSIBLE COMPRESSION CLAMPS.
12. CONTRACTOR LUGS MUST ATTACH TO THE BUS BAR WITH TWO HOLES FACING UP AND OUT WITH THE BOLT HEADS ON THE BACK SIDE OF THE BUS BAR.
13. ANY MODIFICATION TO THE CONNECTOR LUGS IS PROHIBITED, INCLUDING BUT NOT LIMITED TO GRINDING, CUTTING OR BENDING.
14. CONNECTOR LUGS MUST BE PLACED WITH EVEN SPACING AND MUST NOT COME IN CONTACT WITH ANOTHER CONNECTOR LUG.
15. SLOTTED HOLE OF THE CONNECTOR LUG SHOULD BE PLACED ON THE SLOTTED HOLE OF THE MOB.
16. IF POSSIBLE, ALL CONNECTOR LUGS SHALL HAVE TWO (2) COMPRESSIONS PER LUG.
17. ALL CONNECTOR LUGS MUST HAVE NO-OX APPLIED TO WHEN CONTACTING ANOTHER METAL SURFACE.
18. PLACE BOLT THROUGH THE BACK THROUGH MOB AND CONNECTOR LUG.
19. PLACE NUT AND LOCK WASHER ON BOLT.
20. ALL CONNECTOR LUGS SHOULD BE ATTACHED USING MINIMUM 3/8" HARDWARE X 2 PER EACH LUG AND IN THE FOLLOWING MANNER:
21. NO OTHER MECHANICAL CONNECTIONS ARE ACCEPTABLE EXCEPT IN THE EVENT OF MECHANICAL FITTINGS BEING AN INTEGRAL PART OF THE PRODUCT FROM THE FACTORY.
22. ALL BONDING ABOVE GRADE LEVEL TO THE VERTICAL GROUND RISER, SHALL BE MADE WITH IRREVERSIBLE CLAMPS.
23. ALL BONDING ABOVE GRADE LEVEL TO THE VERTICAL GROUND RISER TO THE SITE'S GROUNDING ELECTRODE SYSTEM.

- 13. FOR CONDUCTIVE POLES, ALL METALLIC COMPONENTS AND THE CONDUCTIVE POLE ITSELF SHOULD HAVE AN INTENTIONAL BOND TO THE VGR.
14. ONLY ONE NEUTRAL - GROUND BOND IS TO BE MADE AT ONE OF THE THREE ALLOWABLE LOCATIONS:
2.1 TESTING
1. THE FIRST TEST TO BE CONDUCTED IS THE EARTH GROUND RESISTANCE MEASUREMENT.
2. A SECOND TEST OF THE EARTH GROUND RESISTANCE MEASUREMENT SHOULD BE CONDUCTED ONCE THE MAIN VERTICAL GROUND RISER IS CONNECTED AND BONDED WITH THE ELECTRICAL GRID SERVICE AND ALL OTHER EQUIPMENT ON THE POLE.
3. THE THIRD TEST IS A BONDING AND OBJECTIVEABLE CURRENT TEST THAT MUST BE PERFORMED BEFORE SITE EARTH GROUND METER THE GROUND RESISTANCE READING SHOULD BE 5 OHMS OR LESS AFTER CONNECTION TO THE POWER SYSTEM NEUTRAL.
3.1 OBJECTIONABLE CURRENT IS DEFINED AS ANY CURRENT FLOW OVER CONDUCTORS NOT DESIGNED TO NORMALLY CARRY CURRENT.
3.2 OBJECTIONABLE CURRENT ON GROUNDING AND BONDING PATHS OCCUR WHEN AN IMPROPER NEUTRAL-TO-CHASSIS BOND CREATES A PARALLEL PATH FOR NEUTRAL CURRENT TO RETURN TO THE POWER SUPPLY VIA METAL PARTS OF THE ELECTRICAL SYSTEM IN VIOLATION OF NEC 250.142.
3.3 ON SMALL CELL AND ODAS NODES, OBJECTIONABLE CURRENT WILL BE PRESENT WHEN MORE THAN ONE NEUTRAL TO GROUND BOND IS INSTALLED ON THE NODE EQUIPMENT.
4. THE FOURTH TEST IS A CONTACT VOLTAGE TEST
CONTACT VOLTAGE IS DEFINED BY THE IEEE AS FOLLOWS: A VOLTAGE RESULTING FROM ABNORMAL POWER SYSTEM CONDITIONS THAT MAY BE PRESENT BETWEEN TWO CONDUCTIVE SURFACES THAT CAN BE SIMULTANEOUSLY CONTACTED BY MEMBERS OF THE GENERAL PUBLIC AND/OR THEIR ANIMALS.
4.1. CONTACT VOLTAGE CAN OCCUR ANYWHERE BUT IS MORE UELKY TO BE PRESENT IN URBAN ENVIRONMENTS WITH AGING ELECTRICAL INFRASTRUCTURE.
4.2. CONTACT VOLTAGE CAN OCCUR ANYWHERE BUT IS MORE UELKY TO BE PRESENT IN URBAN ENVIRONMENTS WITH AGING ELECTRICAL INFRASTRUCTURE.
4.3. CONTACT VOLTAGE WILL RESULT FROM UNINTENTIONAL ENERGIZATION OF A METALLIC OBJECT WHEN AN AIR OR PHASE CONDUCTOR COMES IN CONTACT.
4.4. CROWN POLICY IS TO TEST FOR CONTACT VOLTAGE ON ALL AVAILABLE CONDUCTIVE (INCLUDING CONCRETE) SURFACES VIA A HANDHELD FOREIGN VOLTAGE DETECTOR, BY ALL PERSONNEL UPON APPROACHING A NODE LOCATION.
4.5. WHEN PERFORMING THIS TEST IF ANY VOLTAGE PRESENT IT SHOULD BE REPORTED, INVESTIGATED BEFORE LEAVING THE SITE.

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PLANS PREPARED FOR:



PLANS PREPARED BY:



FOR PERMITTING PURPOSES ONLY

ENGINEERING SEAL:

DRAWING NOTICE:

THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE.

REVISIONS:

Table with 4 columns: REV, DESCRIPTION, BY, DATE

SITE CASCADE:

CRAN_RCTB_00011_23
CROWN ID: LT-SC-MA 0317
SCU #493538

SITE ADDRESS:

550 TREMONT ST
BOSTON, MA 02116

SHEET DESCRIPTION:

GENERAL NOTES

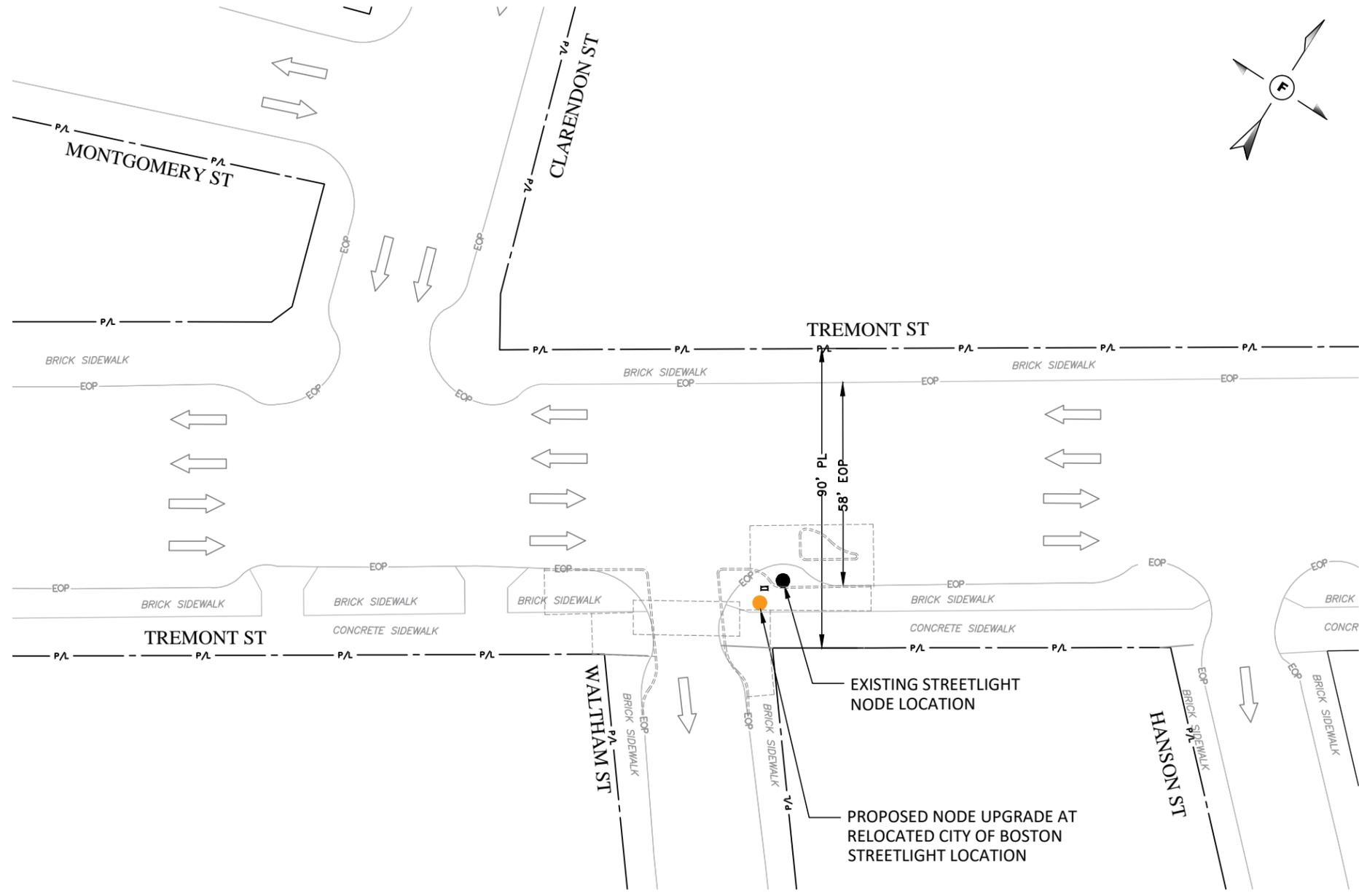
SHEET:

NOTE:
 THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL STREET LIGHTING FACILITIES EXISTING IN THE WORK AREA, SHOULD DAMAGE TO STREET LIGHTING SYSTEM OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RELEVANT CITY STREET LIGHT AUTHORITY.

THE CONTRACTOR SHALL ARRANGE FOR THE IMMEDIATE REPAIR AND RESTORATION OF THE DAMAGED STREET LIGHTING SYSTEM AT NO COST TO THE CITY. A LICENSED ELECTRICAL CONTRACTOR IS REQUIRED TO MAKE ALL REPAIRS NECESSARY TO THE STREET LIGHTING FACILITIES.

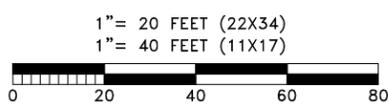
THE CONTRACTOR SHALL EXERCISE PROPER CAUTION WHEN WORKING NEAR ELECTRICAL FACILITIES.

THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY NOTIFICATIONS TO LOCAL PERMITTING AUTHORITIES AND UTILITIES PRIOR TO COMMENCING WORK.



TOP VIEW PROFILE
 QUADRANT LOCATION EQUIPMENT

STREET SIDE



NOTE:
 RIGHT OF WAY AND CENTER LINE INFORMATION
 TAKEN FROM BOSTON GIS DATA

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REV	DESCRIPTION	BY	DATE

SITE CASCADE:

CRAN_RCTB_00011_23
 CROWN ID: LT-SC-MA 0317
 SCU #493538

SITE ADDRESS:

550 TREMONT ST
 BOSTON, MA 02116

SHEET DESCRIPTION:

OVERALL SITE PLAN

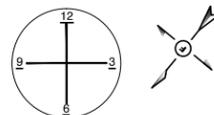
SHEET:

03

NOTES:

1. ALL ATTACHMENTS INSTALLED SHALL MEET ALL CLEARANCE REQUIREMENTS FROM OVERHEAD POWER LINES AS SPECIFIED IN THE LATEST EDITION OF THE NESC AND BY LOCAL UTILITY REGULATIONS.
2. ABSOLUTELY NO FIELD CORING / DRILLING / CUTTING OR METALLIC POLES TO BE ALLOWED.
3. POWER SUPPLY SERVICE CONNECTION AND FIBER OPTIC CABLE CONNECTION TO BE FED UNDERGROUND.
4. NO EXISTING OR FUTURE AERIAL SPANNING ATTACHMENTS ARE TO BE MADE TO THIS POLE.
5. ALL NEW EQUIPMENT / UNITS SHALL BE PAINTED TO MATCH EXISTING LUMINAIRE, POLE OR ARM TO COMPLY WITH THE CURRENTS SURROUNDING AESTHETICS / REQUIREMENTS.
6. THE COMMUNICATIONS UNITS SHALL BE A COLOR MATCHING THE EXISTING LUMINAIRE, POLE OR ARM OR BE WHITE, BROWN, GRAY OR BEIGE.

**TOP VIEW PROFILE
QUADRANT LOCATION EQUIPMENT**



STREET SIDE

ENGINEERING NOTES:

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3. CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. POLE, FOUNDATION AND ACCOMPANYING HARDWARE SHALL BE EVALUATED FOR STRUCTURAL SOUNDNESS. CONTRACTOR SHALL CEASE CONSTRUCTION IF A DETERMINATION IS MADE BY A QUALIFIED PERSON THAT THE POLE, FOUNDATION, OR ACCOMPANYING HARDWARE IS UNABLE TO ACCOMMODATE THE MITIGATION AGREED UPON PRIOR TO CONSTRUCTION.
4. EXISTING POLES, FOUNDATION, AND ACCOMPANYING HARDWARE MUST BE INSPECTED BY A RESPONSIBLE TECHNICIAN IN ORDER TO ENSURE THAT THEY ARE NOT DAMAGED OR DECAYED AND ARE NOT LEANING OR MOVING EXCESSIVELY BEFORE ANY WORK IS STARTED.

NOTES:

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PLANS PREPARED FOR:



PLANS PREPARED BY:



FOR PERMITTING PURPOSES ONLY

ENGINEERING SEAL:

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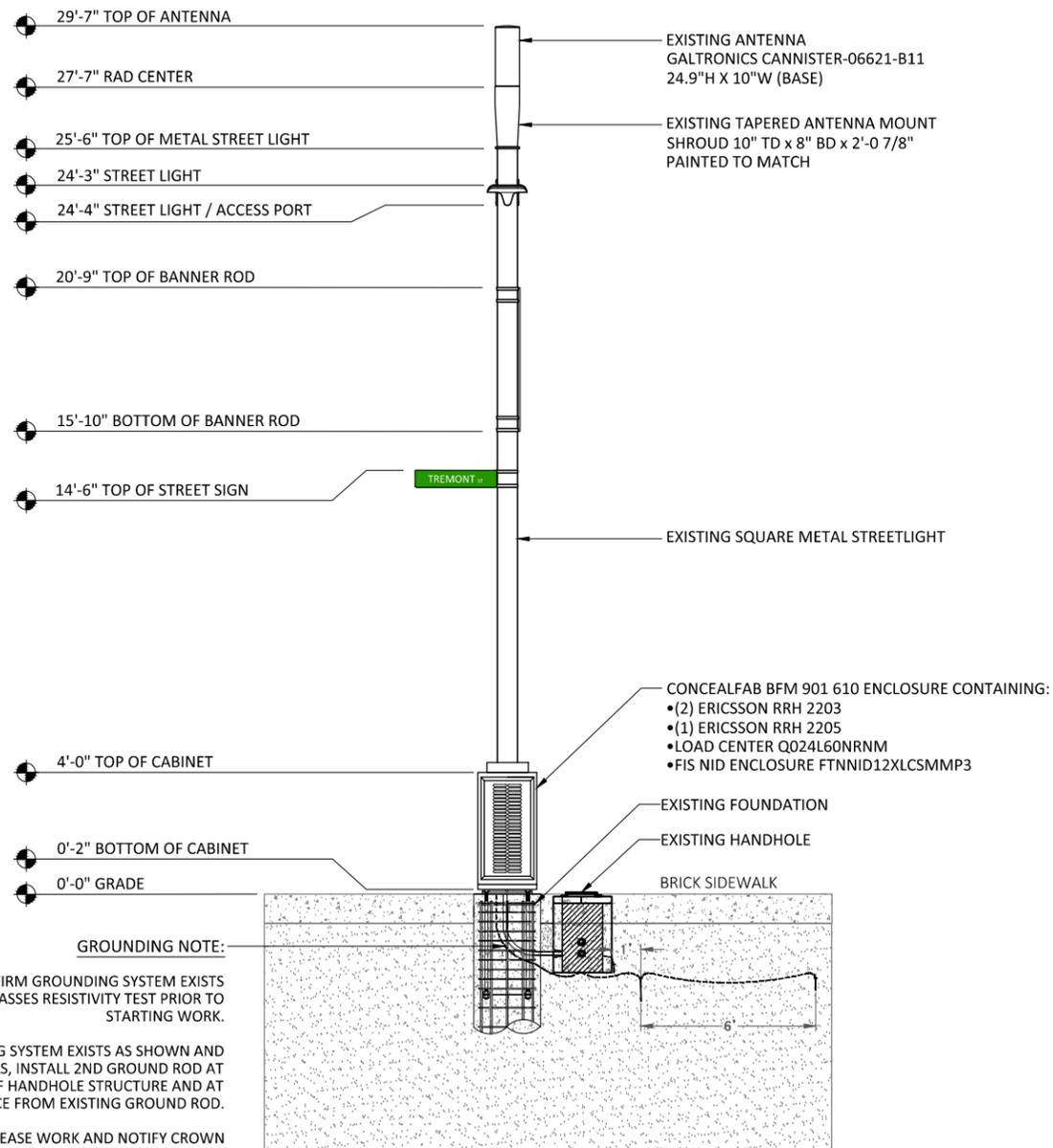
550 TREMONT ST
BOSTON, MA 02116

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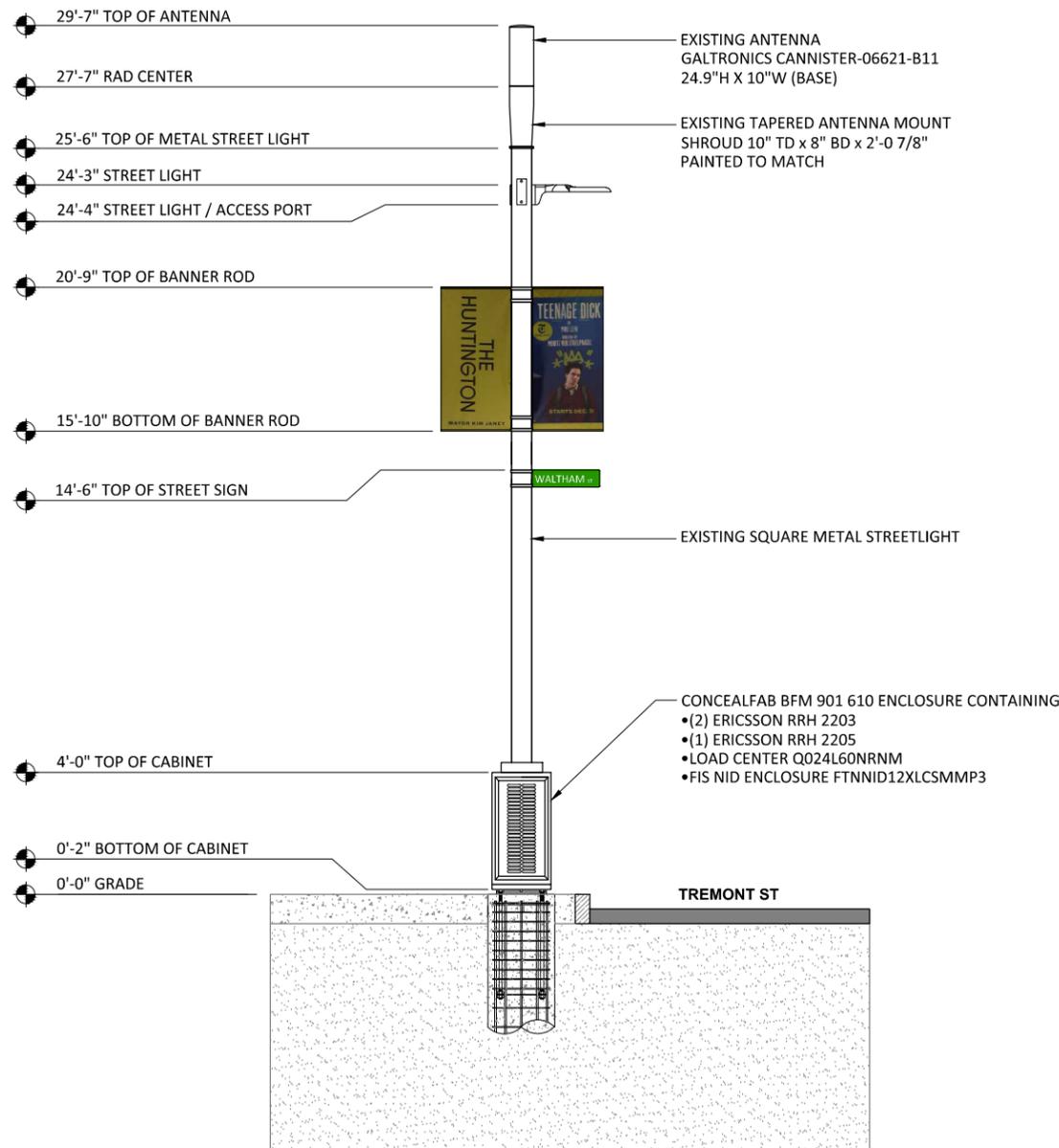
EXISTING
POLE DETAILS

SHEET:

04



EXISTING PROFILE FRONT VIEW
QUADRANT # 6



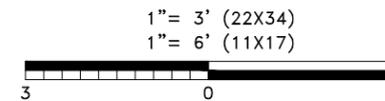
EXISTING PROFILE SIDE VIEW
QUADRANT # 9

CONTRACTOR TO CONFIRM GROUNDING SYSTEM EXISTS AS SHOWN AND PASSES RESISTIVITY TEST PRIOR TO STARTING WORK.

IF GROUNDING SYSTEM EXISTS AS SHOWN AND RESISTIVITY TEST FAILS, INSTALL 2ND GROUND ROD AT LOWEST DEPTH OF HANDHOLE STRUCTURE AND AT MINIMUM 6' DISTANCE FROM EXISTING GROUND ROD.

CONTRACTOR SHALL CEASE WORK AND NOTIFY CROWN CASTLE CONSTRUCTION MANAGER OR ENGINEER AND REQUEST UPDATED PLANS IF THE EXISTING GROUNDING SYSTEM IS FOUND BY A QUALIFIED PERSON TO BE DAMAGED, CORRODED, OR NOT LOCATED AS SHOWN IN THIS PLAN.

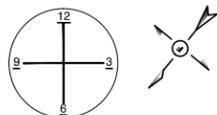
GROUNDING SYSTEM MUST MEET MINIMUM CROWN CASTLE RESISTIVITY REQUIREMENTS AND BE COMPLIANT WITH ALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION, NESC AND/OR NEC CODES.



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**TOP VIEW PROFILE
QUADRANT LOCATION EQUIPMENT**



STREET SIDE

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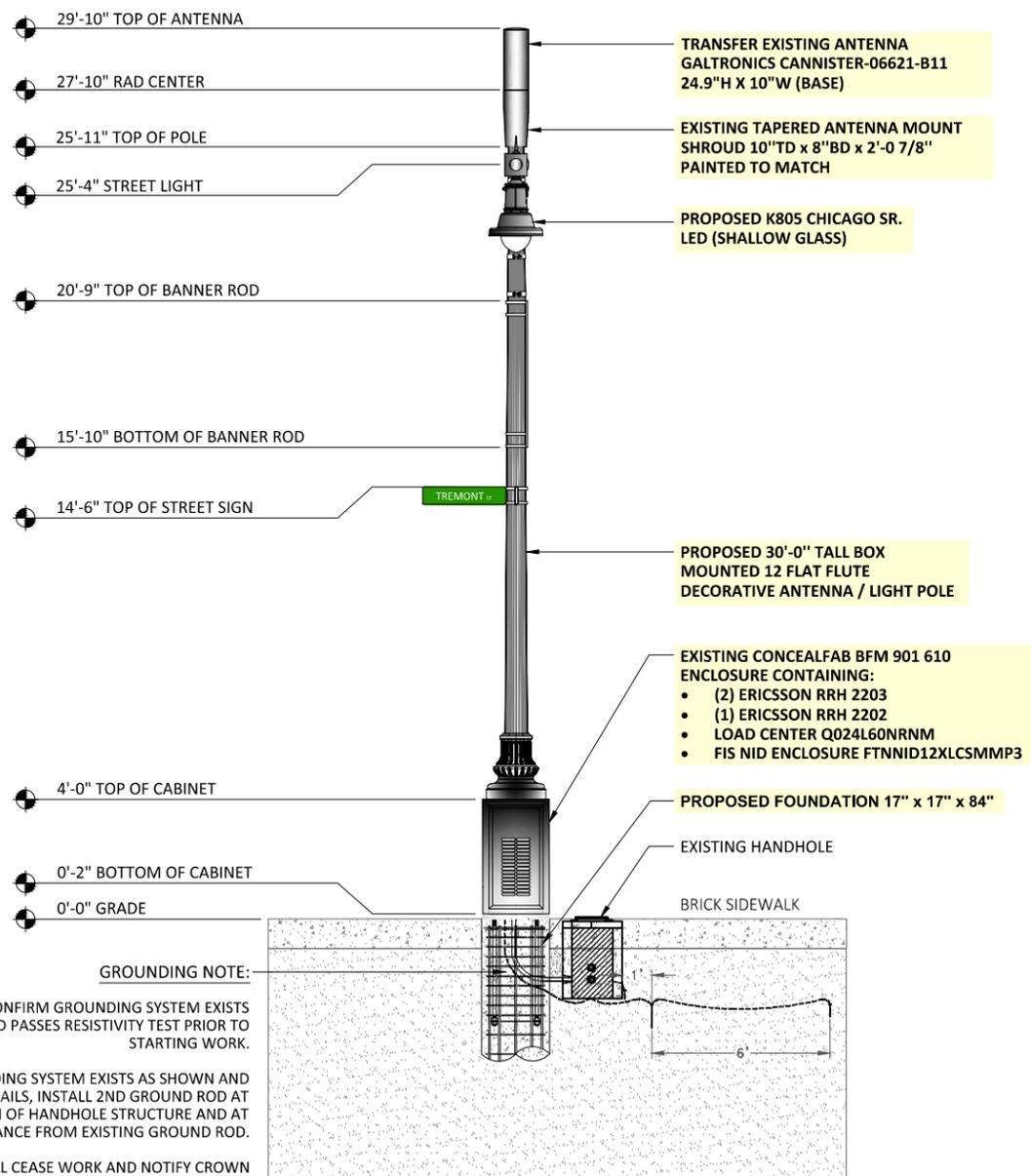
550 TREMONT ST
BOSTON, MA 02116

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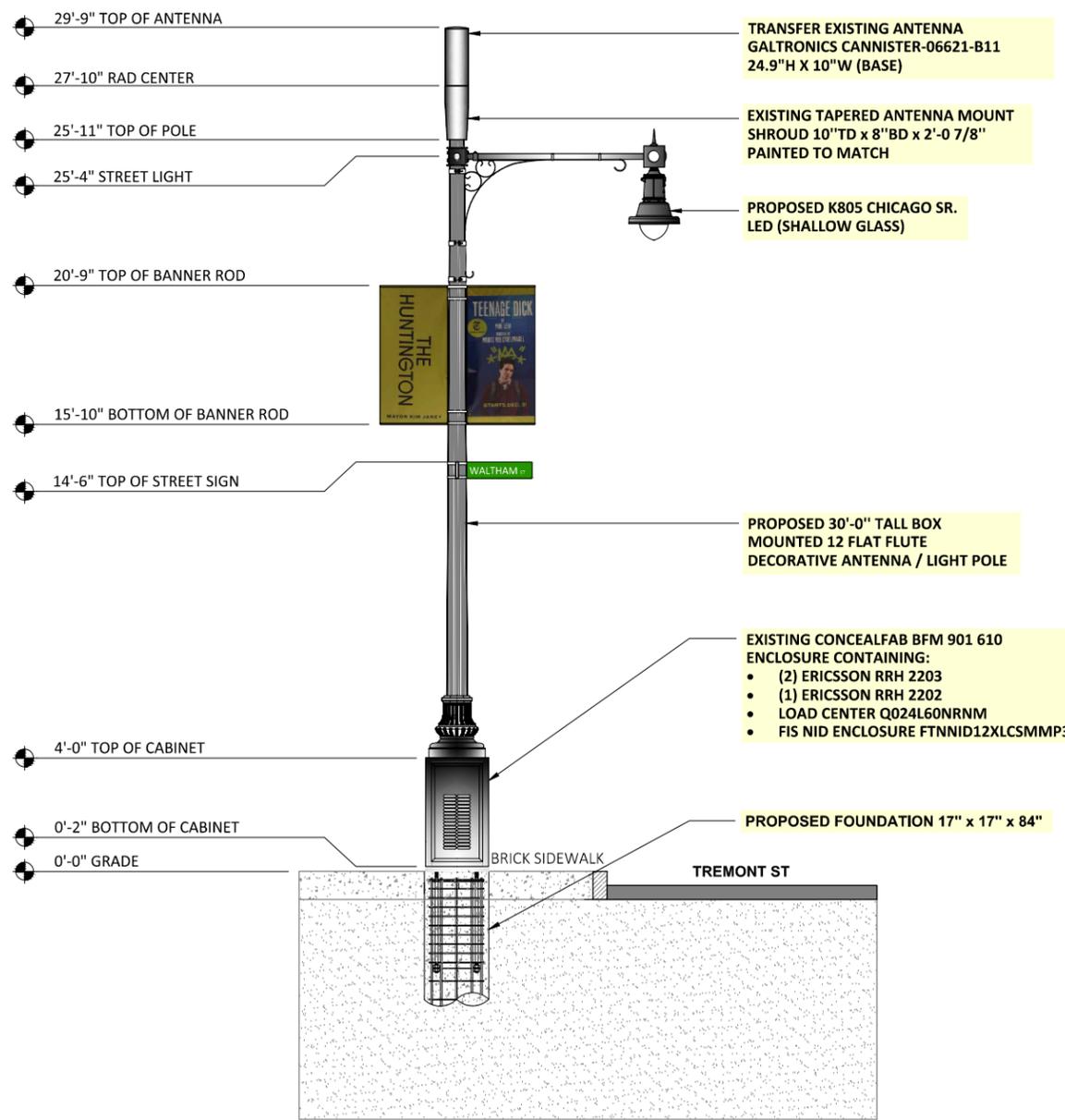
PROPOSED
POLE DETAILS

SHEET:

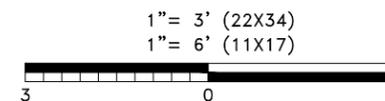
05



**PROPOSED PROFILE FRONT VIEW
QUADRANT # 6**



**PROPOSED PROFILE SIDE VIEW
QUADRANT # 9**





EXISTING PHOTOGRAPHIC VIEW



PROPOSED PHOTOGRAPHIC SIMULATION

PLANS PREPARED FOR:



PLANS PREPARED BY:



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SITE ADDRESS:

550 TREMONT ST
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SHEET DESCRIPTION:

PHOTOGRAPHIC SIMULATION

SHEET:

06